

10/031360

Fig.1

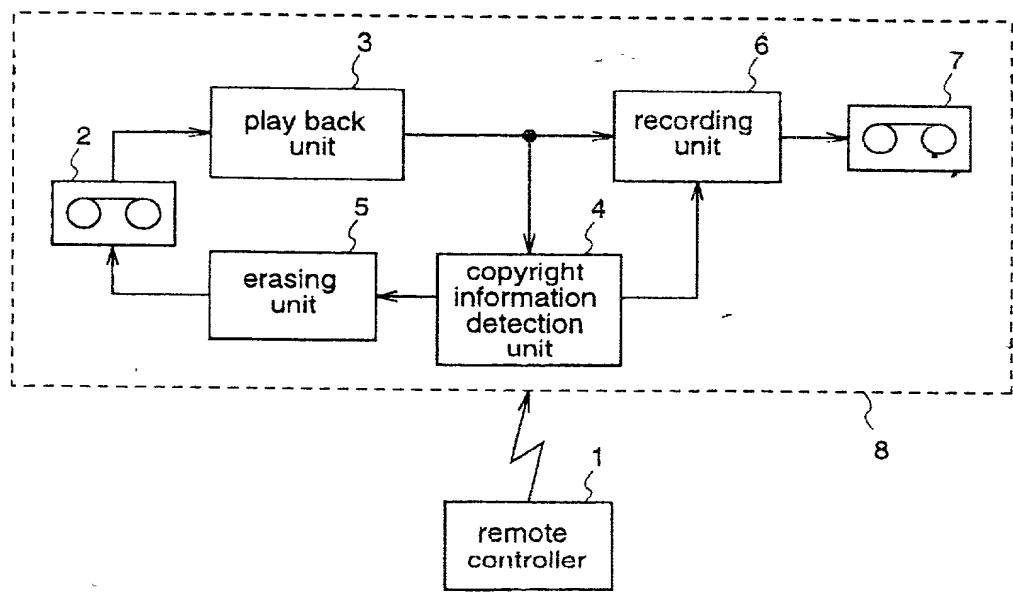


Fig.2

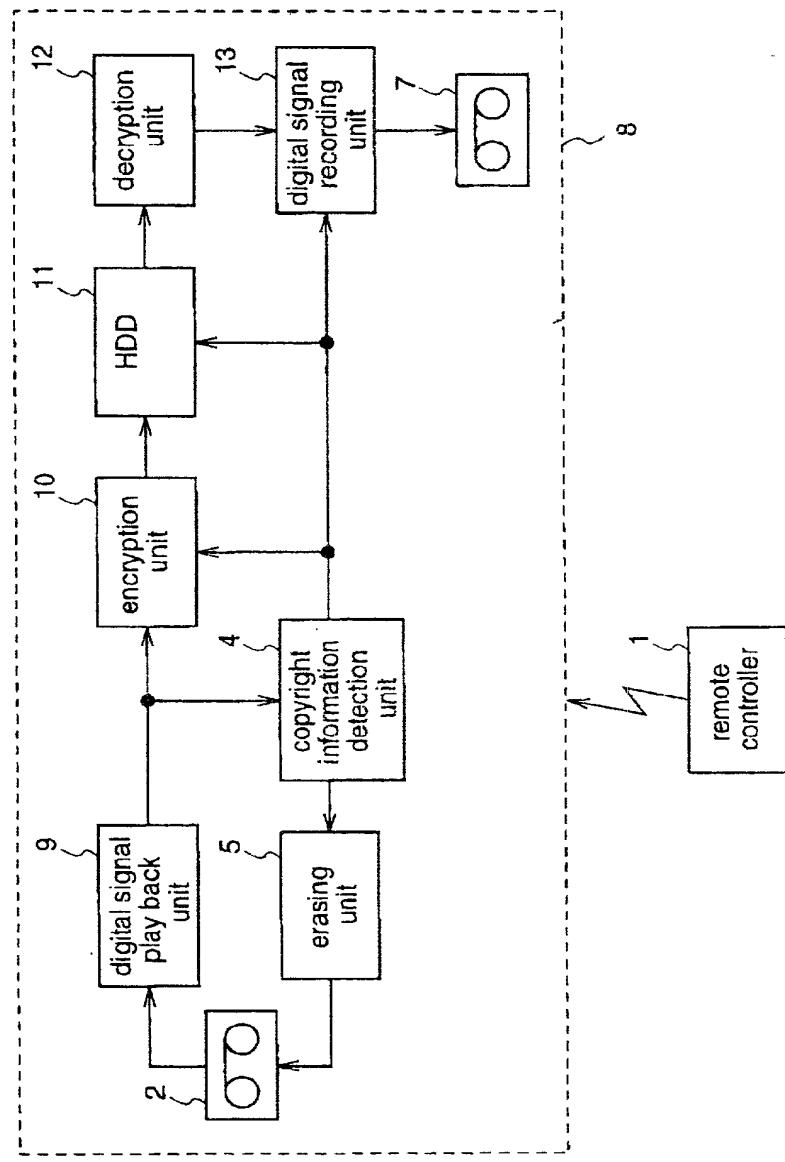


Fig.3

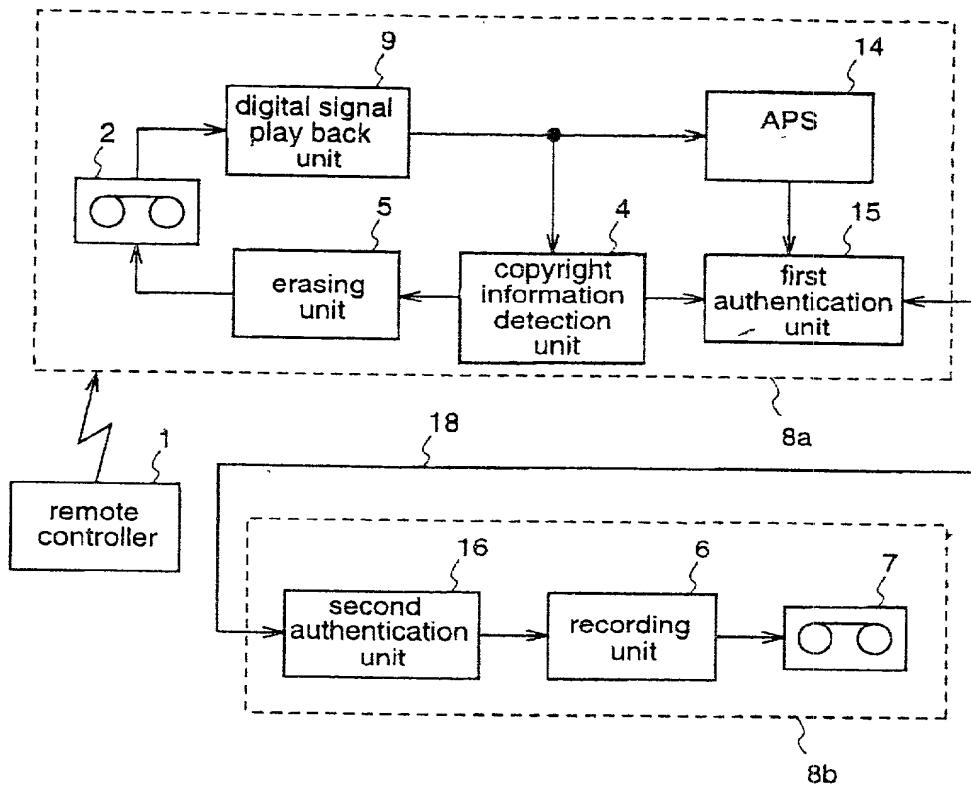


Fig.4

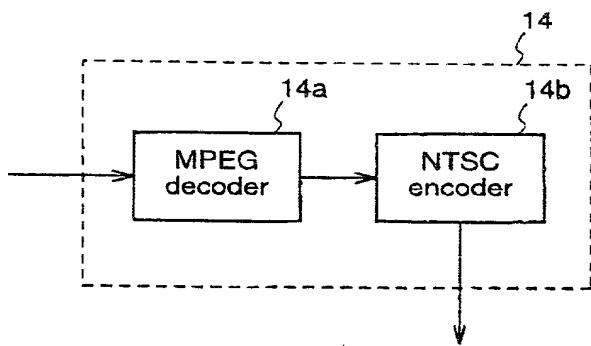


Fig.5(a)

20th line on which CGMS information is superimposed

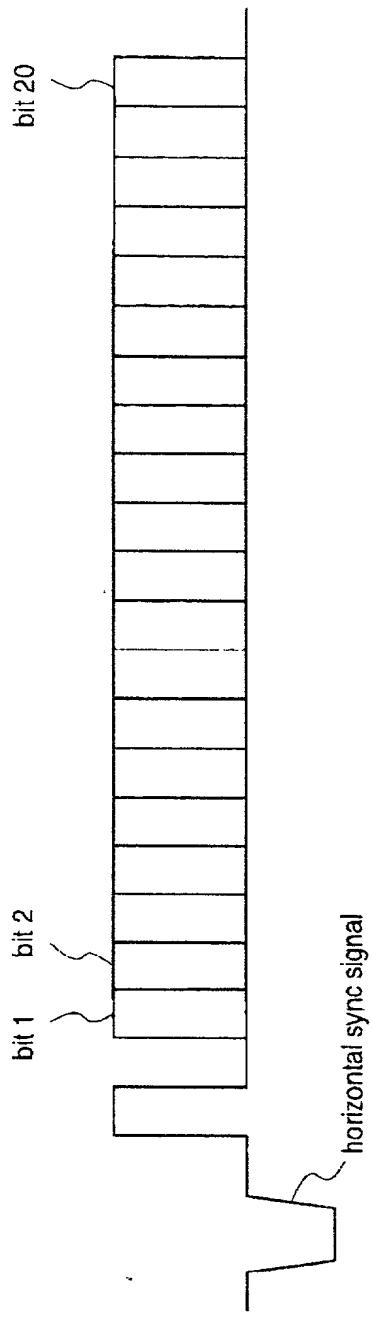


Fig.5(b)

bit 1,2	: aspect ratio of screen and display format
bit 3~6	: header code
bit 7,8	: CGMS-A
bit 9,10	: APS
bit 11	: ASB
bit 12	: transfer permission
bit 13	: transfer information
bit 14	: reserve
bit 15~20	: CRCC

for entire format
2 bits
for 480I macro vision
2 bits
1 bit
1 bit
1=transfer permitted,
0=transfer inhibited
1=during transfer,
0=only play back
1 bit
1 bit

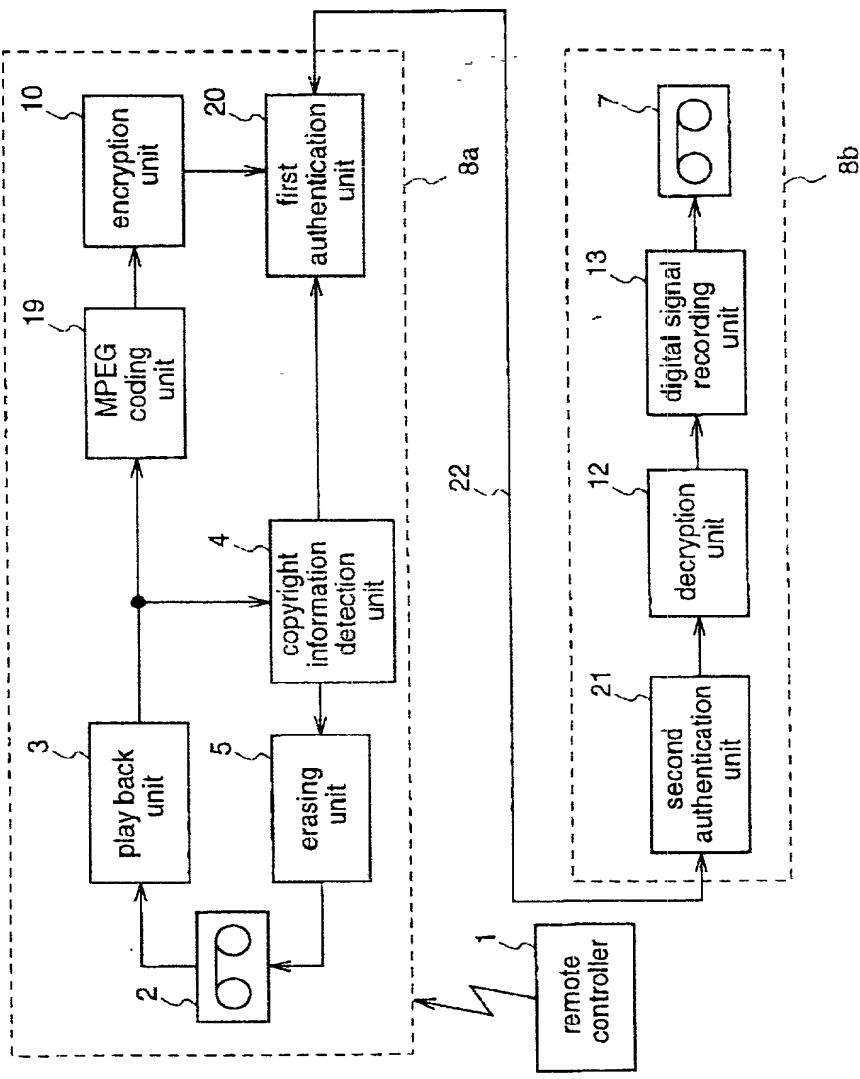


Fig.6

Fig.7

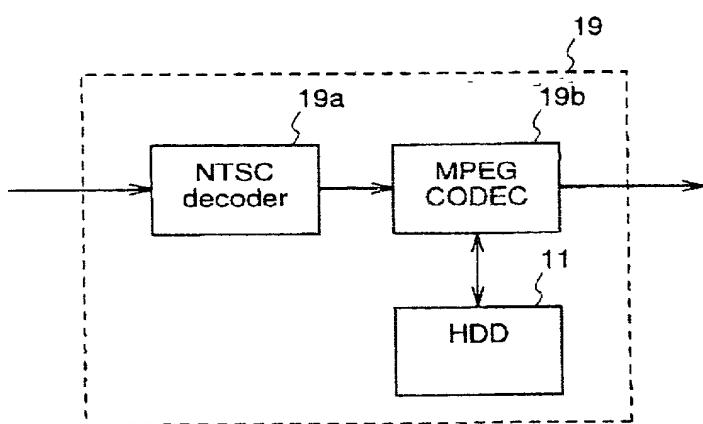
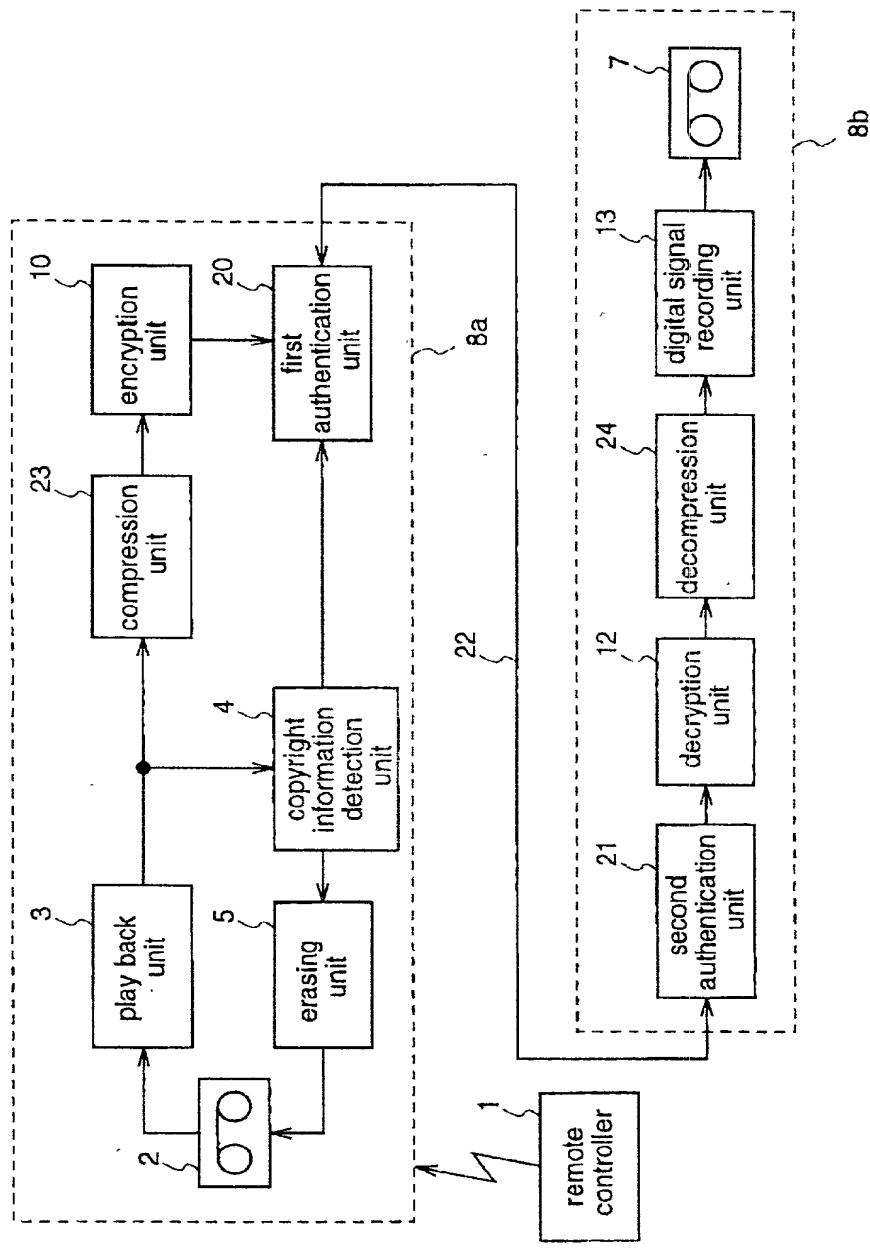


Fig.8



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Fig.9(a)

$$\begin{aligned}
 &\text{generated value } G1 \text{ of } d1 \sim d5 \\
 &= d5 \times 100000000h + d4 \times 1000000h + d3 \times 10000h + d2 \times 100h + d1
 \end{aligned}$$

Fig.9(b)

$$\begin{aligned}
 &\text{total number } T1 \text{ of unused generated values smaller than generated value } G1 \\
 &= d5 \times K5 + d4 \times K4 + d3 \times K3 + d2 \times K2 \\
 &\text{where, } K2 = 36 \text{ (28h)} \\
 &K3 = K2 \times 220 + K2 \times 256 = 17136 \text{ (42F0h)} \\
 &K4 = K3 \times 220 + K2 \times 256 \times 256 = 6129216 \text{ (5D8640h)} \\
 &K5 = K4 \times 220 + K2 \times 256 \times 256 \times 256 = 1952407296 \text{ (745F5F00h)}
 \end{aligned}$$

Fig.9(c)

$$\begin{aligned}
 &\text{image data (hexadecimal number) } G2 \text{ after compression} \\
 &= G1 - T1 \\
 &= d5 \times 100000000h + d4 \times 1000000h + d3 \times 10000h + d2 \times 100h + d1 \\
 &- (d5 \times K5 + d4 \times K4 + d3 \times K3 + d2 \times K2) \\
 &= d5 \times 8BA0A100h + d4 \times A279C0h + d3 \times BD10h + d2 \times D8h + d1
 \end{aligned}$$

Fig.10

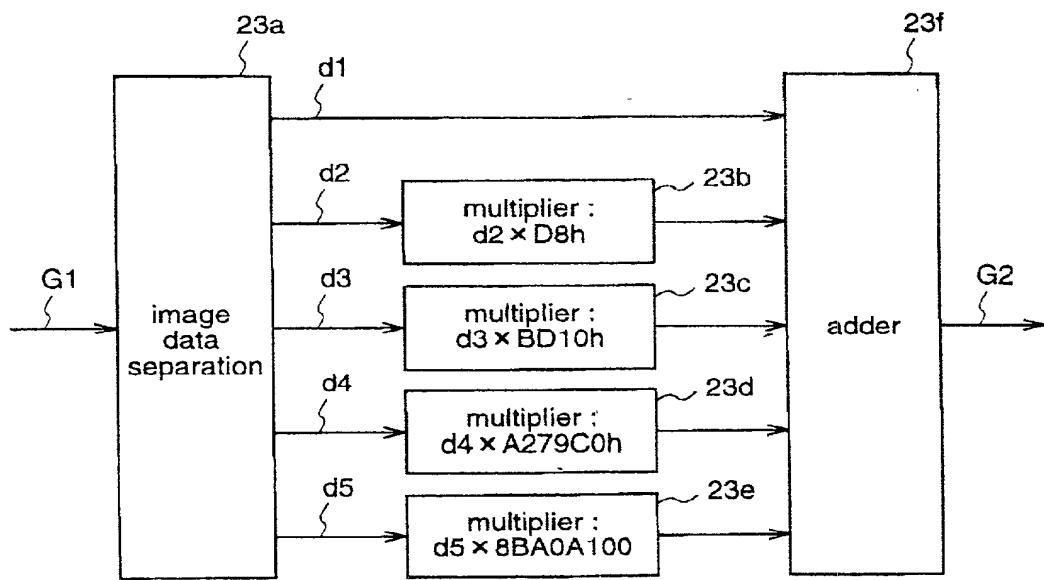


Fig.11(a)

image data after compression=G2
 $L_1 = \text{quotient of } G2 \div 220$
 $L_2 = \text{quotient of } L_1 \div 220$
 $L_3 = \text{quotient of } L_2 \div 220$
 $L_4 = \text{quotient of } L_3 \div 220$
 (220=decimal number)

Fig.11(b)

generated value G1 of d1 ~ d5(hex)
 $= G2 + L_1 \times 36 + L_2 \times 36 \times 256 + L_3 \times 36 \times 256 \times 256 + L_4 \times 36 \times 256 \times 256 \times 256$
 $= G2 + L_1 \times 24h + L_2 \times 2400h + L_3 \times 240000h + L_3 \times 2400000h$

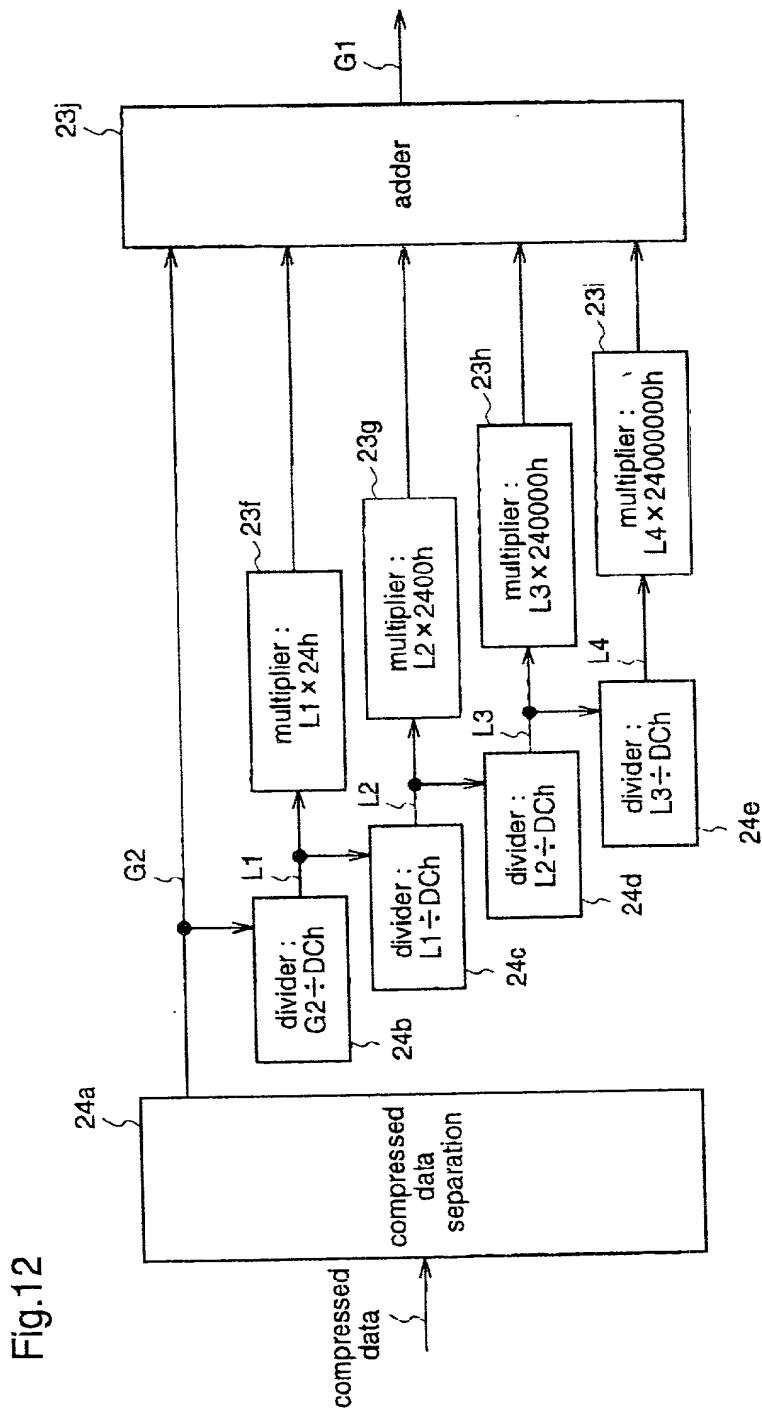


Fig.13

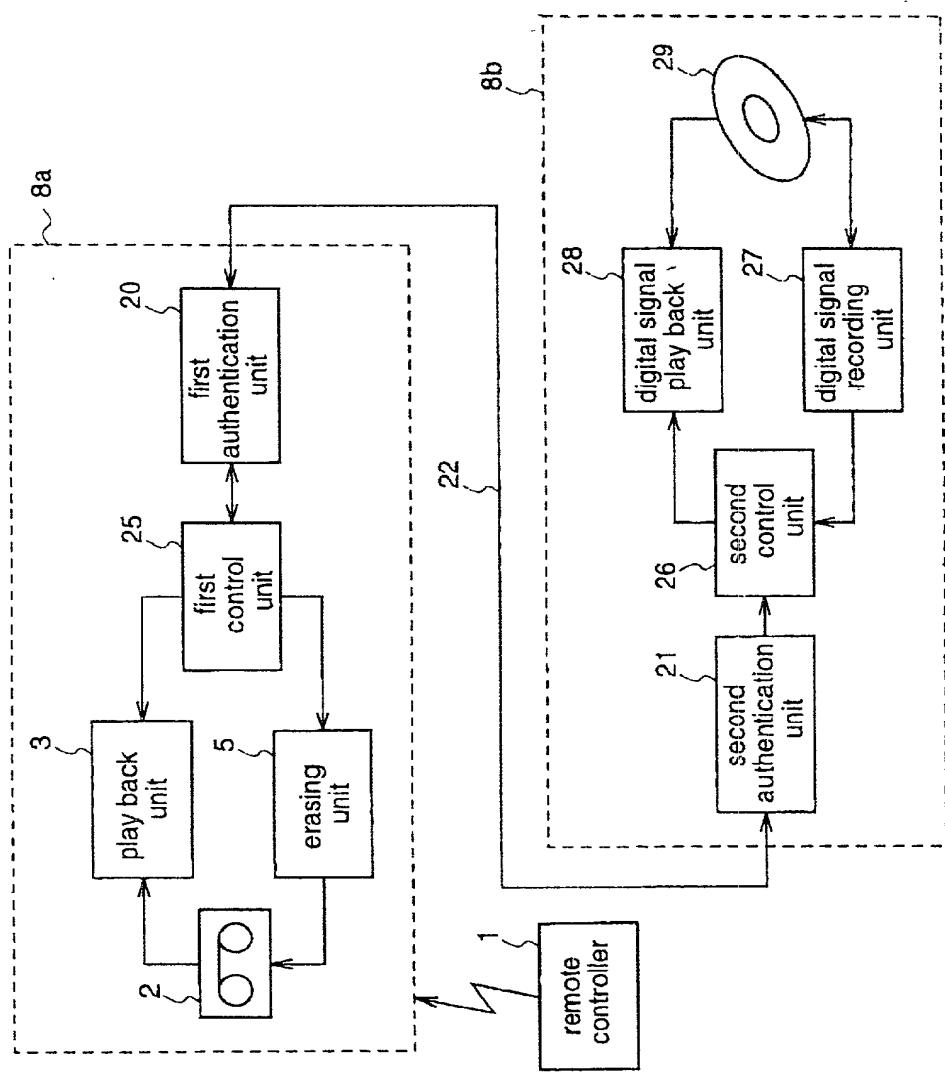


Fig.14

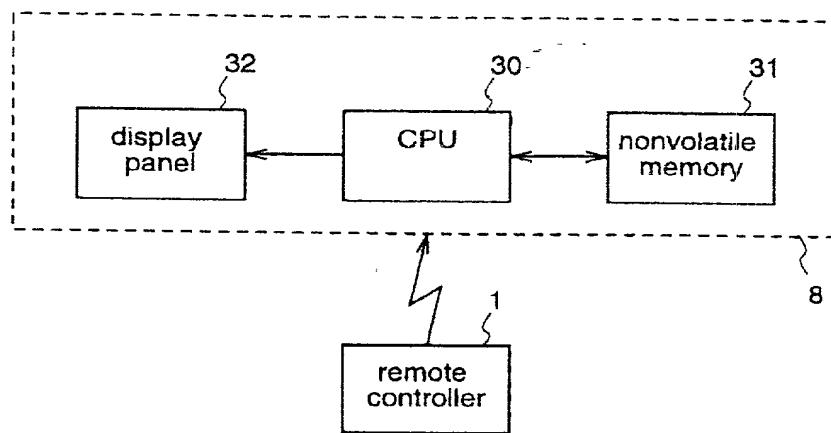


Fig.15

